

# INFORMATION REPORT

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1. The Andreev Metallurgical Plant in Taganrog (38°35'E/57°13'N), Rostov Oblast, suffered minor war damages. The storage building of open-hearth plant No II and the administrative building were reconstructed. The clubhouse and the fire department were the only new installations constructed as of October 1949.

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2. [redacted] open-hearth plant No 1 was equipped with three furnaces which were operated continuously. Each furnace had a capacity of more than 100 tons and was tapped every eight hours. The furnaces were charged with pig iron, scrap, and small quantities of a very heavy, brick-red material and, occasionally, with magnesite. Another ingredient of the charge was a silvery shining ore with small crystals on the surface. Every three months one of the open-hearth furnaces was provided with a new lining. [redacted]

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- open-heart plant No 1 had two masut-burning furnaces of Russian origin. These furnaces were tapped every eight hours. Ingots produced in this plant were shipped to the tire plant and the sheet rolling mill. \*
3. The tire plant produced tires of various sizes for locomotive, railroad, and streetcar wheels. This plant was equipped with one large and one small masut-burning furnace. Round ingots were cut into three pieces by a cold-processing circular saw. The pieces were then annealed and a hole about 10-cm in diameter was punched by the hydraulic press cutting machine. The ring was further processed by a pneumatic hammer and again annealed. It was next processed in the tire rolling mill and was widened by another hydraulic press. The tires were then put through another hardening process. [redacted] they were heated, then cooled and hardened in water. [redacted] the tires were put into an acid bath and cooled slowly for sixteen hours. The completed tires were burred and loaded at the loading ramp. Inscriptions on railroad cars indicated that part of the output went to Novocherkassk (47°24'N/40°06'E). The productive capacity of the plant, per 8-hour shift, was [redacted] 400 to 430 flanged tires 90-cm in diameter, weighing 225 kg and 440 to 450 flanged tires, 70-cm in diameter, weighing 260 kg. The actual production ratio, [redacted] was four large tires to one small tire. [redacted] the plant production was 320 to 350

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tires per shift. A third source said that the production of tires per shift increased from 25 to 300 between early 1943 and September 1943.

4. The sheet rolling mill processed oblong ingots, measuring about 30 x 40 x 15 cm, supplied by open-hearth plant No 1. Six of these ingots were processed simultaneously in this mill. They were annealed and roughened down to plates 3-mm to 10-mm thick. Some of the plates were annealed again, rolled down to thin sheets and cut into long strips which were transported to the tube rolling mill. [redacted] some of the steel plates 4 x 2 meters, 8-cm to 25-cm thick, were shipped to Bulgaria. These plates carried the inscription "Made in Germany", painted in white cyrillic letters.

5. In the tube rolling mill, the sheet metal strips were bent and welded in one process by so-called welding nozzles. The rolling mill had four furnaces i.e., one for half-inch tubes, one for two-inch tubes and two for four-inch tubes. The welded tubes were taken from the furnaces, cooled in water basins, cut and tested under pressure. Then the tubes were threaded at the ends and sleeves were screwed on the tubes. The welded tubes were tied in bundles and shipped by rail to Eaku, U.S.S.R.; Rumania; Bulgaria and Albania [redacted]

[redacted] the output of tubes per shift amounted to between 1500 and 2000 half-inch tubes, 260 to 400 four-inch tubes and 900 to 1200 two-inch tubes. All sizes varied between three and six meters. [redacted] the average output as fifty to sixty tons of tubes four to six meters long, varying in thickness. \*\*

6. Open-hearth plant No 2 had four furnaces, each with a capacity of more than 100 tons. Each furnace was tapped every eight hours. The ingot moulds were in the next workshop. The slightly conical ingots had a diameter of 40-cm and were 1.5 or 1.6 meters long. All steel ingots produced in this plant were transported to the Mannesmann tube plant northeast of Taganrog. Shipments of tubes from the Mannesmann plant passed through the Andreev Plant area en route to the freight yard. These tubes were up to twelve meters long and 10-cm to 30-cm in diameter. Some of the tubes had a sleeve attached to one end and others were smooth. \*\*\*

7. Lathes, boring machines and milling machines were observed in the workshop. These machines all had the same type of plates bearing the inscription "Dresden". Two out-door, coke-burning lime kilns calcinated lime for the open-hearth plant. The lime was shipped by rail. Soviet laborers stated that the boiler house had three boilers and one compressor installation. Other plant products were sheet metal, ingot steel, buckets and iron beds.

8. [redacted] the plant had an estimated work force of 1000 Soviets, of which 40 percent were women, and 100 to 120 PW's per each of the three shifts. The plant was run by three directors: the name of the first director was not remembered. Tomoravski, the second director, and Aldermann, the third director, spoke good German. [redacted] he was informed by the foreman of open-hearth plant No 1 that in October 1949 the plant had a total work force of 13,000 to 16,000 laborers, including 60 percent women, and 300 PW's. Work was done in three shifts. [redacted] a work force of 20,000 laborers working in three shifts.

\* [redacted] Comment. For layout of open-hearth plant No 1, the tire plant and the sheet metal rolling mill, see Annex 1. This sketch essentially agrees with previous information although the equipment of the various departments is reported for the first time.

\*\* [redacted] Comment. For layout of the tube rolling mill, see Annex 2, sketch A.  
 \*\*\* [redacted] Comment. For layout of the open-hearth plant No 2, see Annex 2, sketch B.

2 Annexes: Sketches.

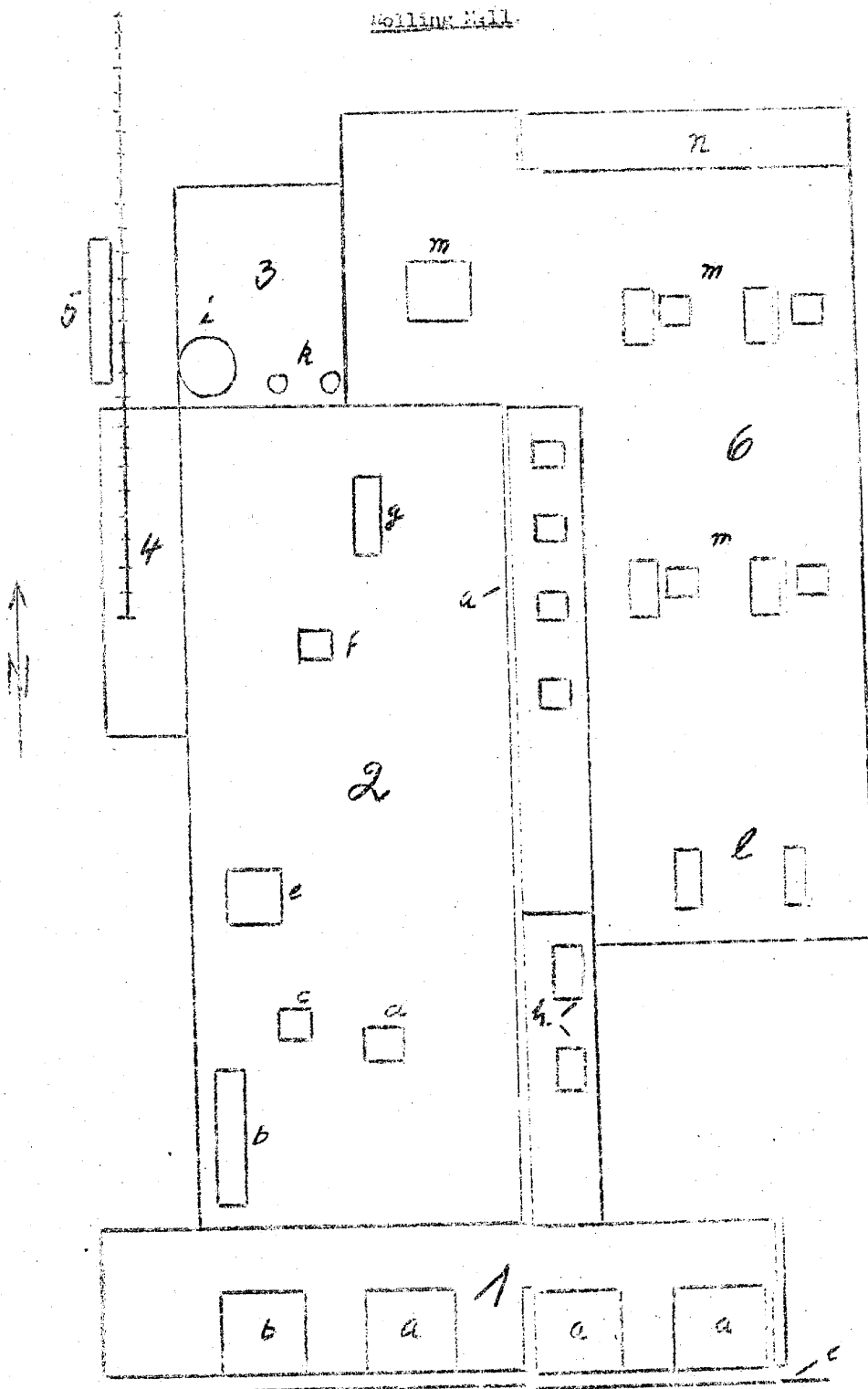
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Andreev Metallurgical Plant in Tashkent, Soviet of Uzbekistan Plant

No. 1, the Tire Plant and the Sheet Metal

Rolling Mill.



Legend: See next page.

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Attachment 1

Legend:

1. Open-hearth Plant No 1.
  - a. Three open-hearth furnaces.
  - b. One open-hearth furnace, not in operation
  - c. Four electrically operated chargers, on rails.

The plant had four traveling cranes with lift capacities of up to 20 tons, and eight ladles, 2 meters in diameter, 2 meters high, with the opening in the bottom.
2. Tire plant.
  - a. Four cold-processing circular saws, used to cut slugs.
  - b. Gasut-burning annealing furnace, 25 x 2½ x 2 meters. The annealed products were conveyed by rollers.
  - c. One 4-column hydraulic press-cutting machine used in punching tires.
  - d. Heavy pneumatic hammer used in preliminary forging of the tires.
  - e. Tire rolling mill.
  - f. Hydraulic pressing machine for rolled tires.
  - g. Hardening furnace, 15 x 4 x 2½ meters, capacity 400 tires.
  - h. Two large transformers.
3. Workshop, 40 x 30 meters.
  - i. New annealing furnace, 10 meters in diameter, 5 meters high, not yet in operation, to be used for tires.
  - k. Two cooling and hardening baths, 2 meters in diameter.
4. Storage building and burring shop 60 x 15 meters, for completed tires.
5. Wooden loading ramp.
6. Sheet-metal rolling mill.
  - l. Two annealing furnaces, 10 x 3 x 3 meters.
  - m. German roller sets, each with an annealing furnace.
  - n. Section containing four or five cold-processing hydraulic shears.

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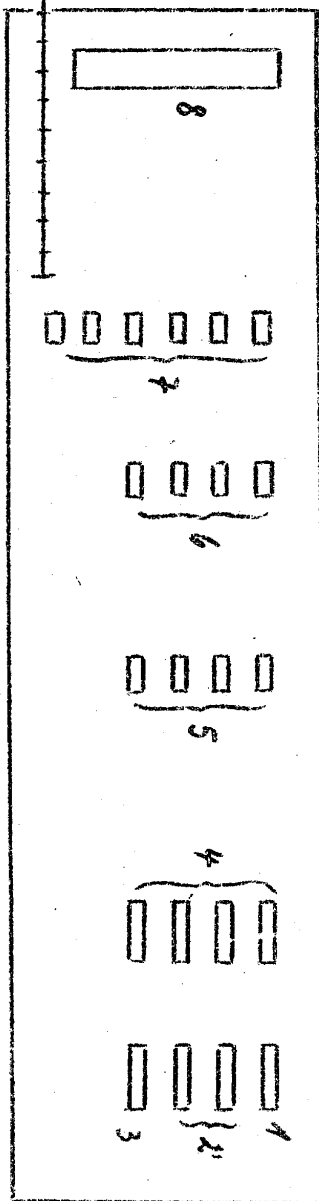
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Attachment 2

Legend: See next page

Time rolling mill of the defense industrial plant in Warsaw.

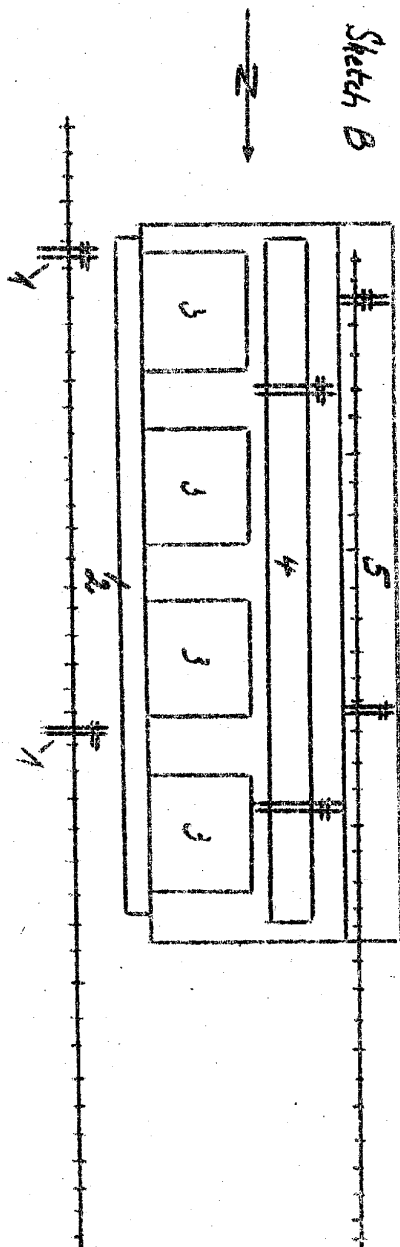
Sketch A



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Sketch B

Open-Heath Plant II of the defense industrial plant in Warsaw.



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Attachment 2

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Legend:

Sketch A Tube rolling mill, 200 x 50 meters, with sheet-metal roof, large windows and two 5-ton traveling cranes.

1. Oil-fired annealing furnace, 10 x 2 x 2 meters used in processing half-inch tubes.
2. Two annealing furnaces, 10 x 2 x 2 meters, used in processing four-inch tubes.
3. Annealing furnace, 10 x 2 x 2 meters, used in processing two-inch tubes.
4. Four cooling basins.
5. Four cutting machines, used to cut tubes to desired lengths.
6. Four water-pressure test stands, used to test tubes.
7. Six thread-cutting machines.
- 8.. Assembly tables where sleeves were screwed on the tubes.

Sketch B Open-hearth Plant No 2, modern building, 120 x 50 x 15 meters, with sheet-metal roof.

1. Two traveling cranes with magnetos, used to unload scrap.
2. Charging platform. The electrically operated dumping skips were 1.8 x 1.1 x 0.8 meters and were suspended from two rails.
3. Four open-hearth furnaces, each with a capacity of more than 100 tons.
4. Casting pit with molds, two traveling cranes, and 10 pouring troughs.
5. Cast polishing shop and shipping department equipped with two large traveling cranes and a railroad connection.

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